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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/646,235	08/22/2003	Dominique Billieres	1035-SC4287	9381
34456 75	590 10/18/2006		EXAMINER	
LARSON NEWMAN ABEL POLANSKY & WHITE, LLP			BALDWIN, GORDON	
5914 WEST CO SUITE 200	5914 WEST COURTYARD DRIVE SUITE 200			PAPER NUMBER
AUSTIN, TX 78730			1775	
			DATE MAILED: 10/18/2000	6

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/646,235	BILLIERES ET AL.			
Office Action Summary	Examiner	Art Unit			
	Gordon R. Baldwin	1775			
The MAILING DATE of this communication ap	ppears on the cover sheet with	h the correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING I - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mailinearned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNIC. .136(a). In no event, however, may a reput the second of the s	ATION. ply be timely filed "HS from the mailing date of this communication. NDONED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on <u>07</u>	August 2006.				
2a)⊠ This action is FINAL . 2b)□ Thi	This action is FINAL . 2b) This action is non-final.				
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D.	11, 453 O.G. 213.			
Disposition of Claims					
 4) ⊠ Claim(s) 2-12,14 and 41-43 is/are pending in 4a) Of the above claim(s) is/are withdra 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 2-12,14 and 41-43 is/are rejected. 7) □ Claim(s) is/are objected to. 					
8) Claim(s) are subject to restriction and/	or election requirement.				
Application Papers					
9) The specification is objected to by the Examin 10) The drawing(s) filed on is/are: a) ac Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examin	cepted or b) objected to be drawing(s) be held in abeyand ction is required if the drawing(s)	ce. See 37 CFR 1.85(a). s) is objected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119		,			
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of: 1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list	nts have been received. nts have been received in Ap ority documents have been r au (PCT Rule 17.2(a)).	oplication No received in this National Stage			
Attachment(s) 1) Notice of References Cited (PTO-892)		ummary (PTO-413)			
Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date		/Mail Date formal Patent Application			

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-5 and 7-10 and 41-43 are rejected under 35 U.S.C. 102(e) as being anticipated by Yamada et al (US 2004/0067392). Yamada teaches a corrosion resistant member comprising a substrate of alumina, and a yttria/alumina coating thereon. The coating has a peeling strength greater than 30 Mpa (Table 1) without the use of a heat treatment, which is considered to eliminate thermally reacted layers (Para. 106-107). The coating has a grain size of 0.1-100 microns. The article may be used as a component in a semiconductor processing apparatus, such as a wall or various parts of the chamber, which is considered to include the chamber wall, lid and sidewall. (Para. 003 & 004).

Regarding "consisting essentially", the transitional phrase "consisting essentially of" limits the scope of a claim to the specified materials or steps "and those that do not materially affect the basic and novel characteristic(s)" of the

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claimed invention. In re Herz, 537 F.2d 549, 551-52, 190 USPQ 461, 463 (CCPA 1976) (emphasis in original) (Prior art hydraulic fluid required a dispersant which appellants argued was excluded from claims limited to a functional fluid "consisting essentially of" certain components. In finding the claims did not exclude the prior art dispersant, the court noted that appellants' specification indicated the claimed composition can contain any well-known additive such as a dispersant, and there was no evidence that the presence of a dispersant would materially affect the basic and novel characteristic of the claimed invention. The prior art composition had the same basic and novel characteristic (increased oxidation resistance) as well as additional enhanced detergent and dispersant characteristics.). "A consisting essentially of claim occupies a middle ground between closed claims that are written in a consisting of format and fully open claims that are drafted in a comprising format." PPG Industries v. Guardian Industries, 156 F.3d 1351, 1354, 48 USPQ2d 1351, 1353-54 (Fed. Cir. 1998). See also Atlas Powder v. E.I. duPont de Nemours & Co., 750 F.2d 1569, 224 USPQ 409 (Fed. Cir. 1984); In re Janakirama-Rao, 317 F.2d 951, 137 USPQ 893 (CCPA 1963); Water Technologies Corp. vs. Calco, Ltd., 850 F.2d 660, 7 USPQ2d 1097 (Fed. Cir. 1988). For the purposes of searching for and applying prior art under 35 U.S.C. 102 and 103, absent a clear indication in the specification or claims of what the basic and novel characteristics actually are. "consisting essentially of" will be construed as equivalent to comprising." See, e.g., PPG, 156 F.3d at 1355, 48 USPQ2d at 1355. Both the yttria and alumina coating of the prior art and the yttria coating of the instant invention have the

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same basic and novel characteristic of being corrosion resistant. Indeed, it appears that the article of the instant claims may include alumina and does not materially affect the basic and novel characteristic.

Additionally, regarding claims 41-43, Yamada clearly teaches that the layer may be yttria (0075). While Yamada may give examples of yttria mixed with other oxides, the reference still clearly teaches that the layer may be yttria.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 11-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yamada et al (US 2004/0067392). Yamada does not expressly teach_ealpha alumina. Absent a showing of unexpected results, it would have been obvious to one of ordinary skill in the art at the time of the invention to select a known material on the basis of its suitability for the intended use as a matter of obvious engineering choice (*In re Leshin*, 125 USPQ 416).

Regarding the grain size, one of ordinary skill in the art at the time the invention was made would have considered the invention to have been obvious because the compositional proportions taught by Yamada '392 overlap the

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instantly claimed proportions and therefore are considered to establish a prima facie case of obviousness. It would have been obvious to one of ordinary skill in the art to select any portion of the disclosed ranges including the instantly claimed ranges from the ranges disclosed in the prior art reference, particularly in view of the fact that;

"The normal desire of scientists or artisans to improve upon what is already generally known provides the motivation to determine where in a disclosed set of percentage ranges is the optimum combination of percentages", In re Peterson 65 USPQ2d 1379 (CAFC 2003).

Also, In re Geisler 43 USPQ2d 1365 (Fed. Cir. 1997); In re Woodruff, 16 USPQ2d 1934 (CCPA 1976); In re Malagari, 182 USPQ 549, 553 (CCPA 1974) and MPEP 2144.05.

Response to Arguments

Applicant's arguments have overcome the rejections over Yamada ('921) and Otsuki.

Applicant's arguments have been fully considered but they are not persuasive, in regard to Yamada '392. The applicant, in the arguments against '392, does not show where there is a reacted interlayer. While some portions do teach a heat treatment (but no thermally reacted layers are mentioned), it is also taught without a heat treatment that might give a thermally reacted layer with peel strength values that can be as much as 30 MPa. This peel value is brought

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about by manipulating the particle size to make for a stronger peel strength, as shown in table (1).

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Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gordon R. Baldwin whose telephone number is (571)272-5166. The examiner can normally be reached on M-F 7:45-5:15.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jennifer McNeil can be reached on 571-272-1540. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

GRB

JENNIFER C. MCNEIL SUPERVISORY PATENT EXAMINER

10/15/06